

KOSTORZ, S.

Graphical method of determining the approximate content of toluene in a benzene fraction. S. Kostorz. *Przemysl Chem.* 30, 301-3 (1953). The approximate content of toluene in a  $C_{10}H_8$  fraction can be detd. from a system of graphs prepd. from results obtained by distn. of known amts. of toluene ranging from 0 to 10% in 100 ml. of a mixt. of toluene and  $C_{10}H_8$ . With the Kraemer-Spilker distn. app., the boiling temp. corresponding to 80 ml. distillate is detd. and the corresponding amt. of toluene in the  $C_{10}H_8$  fraction can be found from the graphs. Gene A. Wozny

*Jan*

I 20222-66

ACC NR: AP6010331

SOURCE CODE: BU/0011/65/018/009/0375/0272

AUTHOR: Kostourkov, G.; Petrounov, B.

ORG: Research Institute of Epidemiology and Microbiology, Bulgarian Academy of Sciences

TITLE: Part played by small and medium-sized lymphocytes in the passive transfer of tuberculin hypersensitivity

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 9, 1965, 875-878

TOPIC TAGS: tuberculosis, allergic disease, cytology, antibody, cell physiology

ABSTRACT: Delayed hypersensitivity is a cell-conditioned allergic reaction which is independent of humoral antibodies and plasmic factors (T. Wesslen, Acta tub. Scand., 26, 1952, 38). The tissues and organs containing cells which are carriers of the allergic factor were established in the course of the last 20 years. On the basis of a variety of studies, certain authors (see, e.g., J. W. Uhr, M. Scharff, J. Exptl. Med., 112, 1960, 65) assume the lymphocytes to be the carriers of the hypersensitivity factor in the delayed type of allergic reactions. The object of the present work was to check the role of small and medium-sized lymphocytes, from an immunologically competent organ like the spleen, in the passive transfer of tuberculin hypersensitivity. Male guinea-pigs weighing between 350 and 400 grams served as test animals. The results of the investigations indicate that spleen lymphocytes from sensitized donors successfully transfer tuberculin hypersensitivity to homologous energetic recipients. These data coincide with

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Card 2/2 m/s

KOSTOURKOV, G.; BACHVAROV, R.

The effect of endogenous pyrogen on agglutinin-formation in rabbits. Dokl. Bolg. akad. nauk 16 no. 7: 749-752 '63

1. Submitted by Academician I. Rnanouiloff.

\*

KOSTOURKOV, G. [Kosturkov, G.]; BACHVAROV, R. [Buchvarov, R.]

The effect of endogenous pyrogen on agglutinin-formation  
in rabbits. Doklady BAN 16 no.7:749-752 '63.

KOSTOUSOV, A.I.; BRITSKO, K.M.; VOLODIN, Ye.I.; GRECHUKHIN, A.I.; DEGTYA-  
RENKO, M.S.; DOBROSKOK, A.N.; MAHDANYAN, M.Ye.; NAYDENOV, I.A.;  
PROKOPOVICH, A.Ye.; TELYATNIKOV, L.P.; USPENSKIY, Ya.K.; KHLYNOV,  
V.N.; PERL'SHTEYN, Ye.A., nauchnyy red.; YEVSEVICHEV, V.I., red.;  
BUDOVA, L.G., tekhn.red.; NADEINSKAYA, A.A., tekhn.red.

[Machine-tool manufacture in Japan] Iaponskoe stankostroenie.  
Pod obshchei red. A.E.Prokopovicha i M.E.Mardaniana. Moskva, TSentr.  
biuro tekhn.informatsii, 1959. 461 p. (MIRA 13:9)

1. Moscow (Province) Oblastnoy sovet narodnogo khozyaystva.  
(Japan--Machine tool industry)

KOSTOUSOV, Anatoliy Ivanovich

Technological development in the machine-tool and instrument  
industries. Dost.nauki i tekhn.pered.op.v prom.i stroi. no.4:  
72-106 '59. (MIRA 12:10)  
(Machine-tool industry) (Instrument industry)

*KOSTOUSOV A.I.*

BERG, A.I., glav. red.; TRAPEZNIKOV, V.A., glav. red.; BERNKOVICH, D.M.,  
zaml glav. red.; LERNER, A.Ya., doktor tekhn. nauk, prof.,  
zam. glav. red.; AVEN, O.I., red.; AGEYKIN, D.I., red.; kand.  
**tekhn. nauk, dots.**, red.; AYZERMAN, M.A., red.; VENIKOV, V.A.,  
doktor tekhn. nauk, prof., red.; VORONOV, A.A., doktor tekhn.  
nauk, prof., red.; GAVRILOV, M.A., doktor tekhn. nauk, prof.,  
red.; ZERNOV, D.V., red.; IL'IN, V.A., doktor tekhn. nauk,  
prof., red.; KITOV, A.I., kand. tekhn. nauk, red.; KOGAN, B.YA.,  
doktor tekhn. nauk, red.; KOSTOUSOV, A.I., red.; KRINITSKIY,  
N.A., kand. fiz.-mat. nauk red.; LEVIN, G.A., prof. red.;  
LOZINSKIY, M.G., doktor tekhn. nauk, red.; ROSSIYEVSKIY, V.I.,  
red.; MAKSAREV, Yu.Ye., red.; MASLOV, A.A., dots., red.; POPOV, A.A., red.;  
RAKOVSKIY, M.Ye., red.; ROZENBERG, L.D., doktor tekhn. nauk,  
prof., red.; SOTSKOV, B.S., red.; TIMOFEYEV, P.V., red.;  
USHAKOV, V.B., doktor tekhn. nauk, red.; FEL'DBAUM, A.A.,  
doktor tekhn. nauk, prof., red.; FROLOV, V.S., red.;  
KHARKEVICH, A.A., red.; KHRAMOV, A.V., kand. tekhn. nauk, red.;  
TSYPKIN, Ya.Z., doktor tekhn. nauk, prof., red.; CHELYUSTKIN,  
A.B., kand. tekhn. nauk, red.; SHREYDER, Yu.A., kand. fiz.-  
mat. nauk, dots., red.; BOCHAROVA, M.D., kand. tekhn. nauk,  
starshiy nauchnyy red.; DELONE, N.N., inzh., nauchnyy red.;  
BARANOV, V.I., nauchnyy red.; PAVLOVA, T.I., tekhn. red.  
(Continued on next card)

BERG, A.I.— (continued). Card 2.

[Industrial electronics and automation of production processes] Avtomatizatsiia proizvodstva i promyshlennaia elektronika. Glav. red. A.I. Berg i V.A. Trapeznikov. Moskva, Gos. nauchn. izd-vo "Sovetskaia Entsiklopediia." Vol. 1. A - I. 1962. 524 p. (MIRA 15:10)

1. Chlen-korrespondent Akademii nauk SSSR (for Sotskov, Kharkovich, Zernov, Timofeyev, Popkov).  
(Automatic control) (Electronic control)



KOSTOUSOV, A.I.; VASIL'YEV, V.S.; GRECHUKHIN, A.I.; DEGTYARENKO, N.S.; PETROCHENKOV, A.G.; PROKOPOVICH, A.Ye.; TELESHOV, A.P.; SHEVIYAKOV, L.N.; GONCHAROVA, S.L., nauchn. red.; BORUSHMOY, I.V., red.; LOGINOVA, R.A., red.; MONAKHOVA, N.F., red.; SHCHEGLOVA, I.B., red.; KOVAL'SKAYA, I.F., tekhn. red.

[Machine-tool industry in Japan according to materials from the Machine-tool Exhibition of 1962 in Osaka] Stankostroenie Iaponii; po materialam stankostroitel'noi vystavki 1962 goda v g.Osaka. Moskva, 1963. 473 p.  
(MIRA 16:12)

1. Moscow. Tsentral'nyy institut nauchno-tekhnicheskoy informatsii po avtomatizatsii i mashinostroyeniyu.  
(Japan—Machine-tool industry)

BARANOV, Yu.I.; KOSTOUSOV, N.L.

Controlling open-hearth furnace gates from the charging machine.  
Stal' 23 no.9:793-799 3 '63. (MIRA 16:10)

BARANOV, Yu.I.; KOSTOUSOV, N.L.

Automatic dewatering of mazut. Stal' 23 no. 3:279 Mr '64.  
(MIRA 17:5)

1. Severskiy metallurgicheskiy zavod.

BARANOV, Yu.I., inzh.; KOSTOUSOV, N.L., inzh.; STEPANOV, V.I., inzh.

Remote-controlled fuel supply at a gas-generator station.  
Mekh. i avtom. proizvod. 17 no.8:13-15 Ag '63. (MIRA 16:10)

BARANOV, Yu.I.; KOSTOUSOV, N.L.

Automatic temperature control of reduction gear and engine bearings  
of the main drive of rolling mills. Stal' 23 no.7:640 J1 '63.  
(MIRA 16:9)

(Rolling mills—Electric driving)  
(Automatic control)

BARANOV, Yu.I.; KOSTOUSOV, N.L.; MINYAYEV, V.A.; YEMEL'YANOV, V.P.

In rolling mills across the land. Metallurg 8 No.3:32-34 Mr.'63.  
(MIRA 16:3)

1. Severskiy metallurgicheskiy zavod (for Baranov, Kostousov, Minyayev). 2. Magnitogorskiy metallurgicheskiy kombinat (for Yemel'yanov).

(Rolling mills—Equipment and supplies)

BARANOV, Yu.I.; KOSTOUSOV, N.P.; MINYAYEV, A.A.; SHIROKOV, S.P.

Magnetic device for handling billets. Metallurg 8 no.6:33  
Je '63. (MIRA 16:7)

1. Severskiy metallurgicheskiy zavod.  
(Rolling (Metalwork)) (Materials handling)

APAKHOV, I.A.; KALYAZINA, V.S.; PARYLIS, E.Ya.; KLYUKINA, E.P.; POSTNIKOVA,  
A.V.; Prinimali uchastiye: BASHKIROVA, Ye.M.; NAZAROVA, A.K.;  
KOSTOUSOVA, A.S.

Improving the quality of contact sulfuric acid. Khim. prom.  
41 no.10:745-746 0 '65. (MIRA 18:11)



D'YAKOV, A.A.; KOSTOUSOVA, T.I.

Dependence of hydrogen overvoltage on aluminum on the state  
of the aluminum surface and concentration of the acid.

Zhur.fiz.khim. 34 no.7:1610-1615 J1 '60.

(MIRA 13:7)

1. Ural'skiy gosudarstvennyy universitet im. A.M.Gor'kogo,  
Sverdlovsk.

(Overvoltage) (Aluminum) (Hydrogen)

KOSTOV, Boris

Some Results from the Fluorescent Tube Illumination on Industrial  
Enterprises. Elektroenergiia (Electric Power), #11-12:13: Nov-Dec 54

KOSTOV, B.

"Stroboscopic effect of the fluorescent lamp and the method for its reduction."  
Vol. 5, no. 5/6, May/June 1954, p. 27. Elektroenergiia, Sofiya

SO: Eastern European Accessions List, Vol 3, no. 11, Nov. 1954, L. C.

KOSTOV, B.

"New Bulb-shaped fluorescent lamps."

p. 5 (Elektroenergiia, Vol. 8, no. 8, Aug. 1957, Sofia, Bulgaria.)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 6  
June 1958.

KOSTOV, B.

Transforming processes of electric power in the total electric power of Bulgaria during 1953, 1954, and 1955.

p. 6 (ELEKTROENERGIJA) Vol. 8, no. 9, Sept. 1957,  
Sofia, Bulgaria

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3,  
March 1958

KOSTOV, B.

TECHNOLOGY

Periodical: IZVESTIYA. No. 5/6, 1958.

KOSTOV, B. Equalizing single-phase electric loads in three-phase systems.  
p. 353.

Monthly List of East European Accession (EEAI), LC., Vol. 8, No. 2,  
February 1959, Unclass.

KULELIEV, Kr.; KOSTOV, B.

Geochemical investigations in the Radnevo gypsiferous region.

~~II. Origin of lime concretions.~~ Godishnik Min. geol inst  
7 no.1:221-239 '60/'61.

KULELIEV, Kr.; KOSTOV, B.

Geochemical studies in the Radnevo gypsiferous region.  
Godishnik Min geol inst 7:9-21 '60/'61 [publ. '62].



L 00161-66

ACCESSION NR: AP5025552

BU/0011/65/018/002/0129/0132

AUTHOR: Kostov, B.

2/B

TITLE: Mineral-formation in the  $\text{CaO-Al}_2\text{O}_3\text{-MgSO}_4$  system

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 2, 1965, 129-132

TOPIC TAGS: cement, combustion, mineral, sulfate, aluminum oxide, aluminate, calcium compound

ABSTRACT:

The problem represents a particular case encountered during the burning of Portland cement and similar raw material mixtures containing sulfate substances - natural admixtures in the initial raw materials or those introduced as mineralizers. At present, a comparatively complete study has been made only of the  $\text{CaO-Al}_2\text{O}_3\text{-CaSO}_4$  system (e.g., F. Nobbe, *Bull. Soc. Japan*, 34, 1961, No 1; 64, 1962, 5). It has been demonstrated that the compound  $3(\text{CaO} \cdot \text{Al}_2\text{O}_3) \cdot \text{CaSO}_4$ , which possesses binding properties and plays the role of a separate clinker constituent, is formed at temperatures that are relatively not so high (1100-1200°). Consequently, the author undertook a systematic study of mineral formation in the indicated system. The action of the sulfates of the metals belonging to the 2nd group of the periodic system

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ACCESSION NR: AP 5025552

and is formed regardless of the mixture's base. Other tests showed that when calcium-aluminate mixtures are burned in the presence of sulfates, a complex interaction occurs at relatively not so high temperatures (900-1200°), which corresponds to the reactions in the mixtures of solid substances. It is possible only in cases when the temperature of  $\text{MoSO}_4$  dissociation is lower than that of  $\text{CaSO}_4$  dissociation. Finally, when sulfated raw material mixtures are used, the  $3(\text{CaO} \cdot \text{Al}_2\text{O}_3) \cdot \text{CaSO}_4$  compound, which has the properties of an independently binding substance, replaces  $3\text{CaO} \cdot \text{Al}_2\text{O}_3$  in part or in toto. The summary technological and physico-mechanical properties of the burned products (and of the clinker and the cement, in particular) respectively change to a greater or lesser degree, depending on the quantity of  $3(\text{CaO} \cdot \text{Al}_2\text{O}_3) \cdot \text{CaSO}_4$ . was investigated since many of these ( $\text{CaSO}_4$ ,  $\text{MgSO}_4$ ,  $\text{BaSO}_4$ ) are quite common in nature and might be of interest as potential raw material in the production of silicates. Experiments proved the existence of  $3(\text{CaO} \cdot \text{Al}_2\text{O}_3) \cdot \text{CaSO}_4$  and its formation in the investigated system. It is the thermodynamically most resistant among all calcium aluminates typical of Portland cement clinker.

Card 2/3

L 00161-66

ACCESSION NR: AP5025552

ASSOCIATION: Chemico-Technological Institute, Darvenitsa, Sofia

SUBMITTED: 00

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SUB CODE: IC, GC

NR REF SOV: 005

OTHER: 001

JPRS

Card <sup>141</sup>3/3

IVANOV, V.; MILENKOV, K.; TSOLOV, N.; ALEKSANDROVA, B.; TSANKOV, I.; MECHKUNOV, K.;  
KHAMANDZHIEV, K.; BALABANOVA, V.; KOSTOV, D.; KIS'OVA, A.

Results of the treatment of epilepsy using E. I. Karmanova's method.  
Suvrem. med., Sofia 9 no.7:49-56 1958.

1. Iz NIPI i Okruzhnite psikho-nevrologichni dispanseri vuv Vratsa,  
Ruse, Khaskovo i Stara Zagora.

(EPILEPSY, ther.

sodium bromide with calcium chloride & adenoside (Bul))

(BROMIDES, ther. use

sodium bromide in epilepsy, with calcium chloride & adenoside  
(Bul))

(ADONIS, ther. use,

epilepsy, with sodium bromide & calcium chloride (Bul))

(CHLORIDES, ther. use,

calcium chloride in epilepsy, with sodium bromide & adenoside  
(Bul))

KOSTOV, D.

The 14th nationwide competition in radiotelegraphy. Radio  
i televiziiia 11 no.9:262 '62.

KOSTOV, D.

Fifteenth Competition in Radiotelegraphy in Bulgaria. Radio i  
televiziia 12 no.8:227-228 '63.

KOSTOV, D.

First nationwide multiple radio competition. Radio i televizija  
12 no. 11: 328, '63.

KOSTOV, D.

Fourth national competition in fox hunting. Radio i televizii 12  
no.9:259-260 '63.



KOSTOV, D.

The 1963 National Short-Wave Championship. Radio i televiziiia 12  
no.9:263 '63.

1. Gl. sekretar na IV republ. kv sustezanie,

KOSTOV, D.

Field Day competition in Czechoslovakia. Radio i televiziia 12  
no.5:132 '63.

KOSTOV, D. (IZIDA)

Results of the 1962 Short-Wave Championship. Radio i televizija  
12 no.1:3 '63.

KOSTOV, D.

For a more varied and a wider competitive sports activity.  
Radio i televiziiia 13 no. 2:34-35 '64.

KOSTOV, D. (Sofiya)

Accomplishments of Bulgarian radio amateurs. Radio no.9:17  
S '64. (MIRA 17:12)

KOSTOV, Emil, inzh.; VICHEVA, Neli, inzh.

Interaction between the electric power system and the overhead  
lines of an electrified railroad section. Elektroenergiia  
15 no.11:13-15 N '64.

KOSTOV, Georgi

Correlation between labor productivity and labor wages.  
Trud tseni 4 no.1:20-31 '62.

KOSTOV, Georgi, inzh., nauchn sutrudnik

The first bridge-canal of prestressed reinforced concrete in Bulgaria. Stroitelstvo 9 no.6:17-20 N-D 14.

1. Nauchnoizsledovatel'ski institut po stroitelstvo.



KOSTOV, Georgi

Full use of the principle of personal material interest. Trud.  
tseni 5 no.4:28-37 '63

1. Chlen na Redaktsionnata kolegiia, "Trud i tseni".

KOSTOV, Georgi

- Principle of personal material interest, and the development of farming. Trud tseni 4 no.9:18-30 '62.

1. Chlen na Redaktsionnata kolegia, "Trud i tseni".

L 40947-66

ACC NR: AP6030998

SOURCE CODE: BU/0015/66/027/001/0104/0109

AUTHOR: Chunev, D.; Zagorchev, Iv.; Kostov, Il. 17  
8

ORG: Scientific Research Geological Institute, GUGOZN (Nauchnoizsled. geol. institut pri GUGOZN)

TITLE: Pliocene of the Karlovo plain

SOURCE: Bulgarsko geologicheskoto druzhestvo. Spisanie, v. 27, no. 1, 1966, 104-109

TOPIC TAGS: geology, physical geology

ABSTRACT:

Drilling investigations seem to indicate that the Pliocene sediments of the Karlovo plain may be divided into two lithological horizons the lower of which contains mainly greyish-blue and greyish-green clays, and sandstones with coal and diatomite intercalations while the upper contains gravels composed of granite and gneiss fragments and light-grey to white clays and sandstones. The Sredna Gora anticline, along with the allochthon of the Balkan granite overthrust, has been the source of terrigenous material. The most intensive faulting and elevation of the Balkan block occurred after the Pliocene. The authors thank Iv. Vaptsarov for consultation on the geomorphological questions, and Zh. Trashlieva for carrying out the microscope research. Orig. art. has: 2 figures. [Based on authors' Eng. abst.] [JPRS: 36,844]

SUB CODE: 08 / SUBM DATE: 19May65 / ORIG REF: 010

Card 1/1 *LC*

61. A. 8

The iron deposits of the Shipka Mountain. Ivan Kostov.  
(Univ., Sofia, Bulgaria). *Annuaire univ. Sofia, Perm. 1948*  
n. s., Livre 3, 45, 1-37, English summary, 38-41 (1948-49).--  
Iron ore deposits are mostly magnetite with some specular-  
ite, intermixed with other minerals, contg. 25-65%  $\text{Fe}_2\text{O}_3$ .  
Geology of the mountain and phys. features of the deposits  
are described and their origin is discussed. O. M.

KOSTOV, IVAN

Kostov, Ivan Mineralogija; spetsialna chast. (Sofiya) Nauka i izkustvo (1949) 418 p.  
(Universitetska literatura) (Mineralogy; special part. Illus., maps, index)

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, L. C., VOL. 3, NO. 1, Jan. 1954, Uncl.

KOSTOV, I.

"Geochemistry of Sulfur", P. 39, (MINNO DELO), Vol. 9, No. 1, Jan. 1954,  
Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No.1,  
Jan. 1955, Uncl.

KOSTOV, I. V. (1954)

U.S.S.R.

Rational classification of the minerals (Univ. Sofia, Bulgaria, Zapr. 1954)

Obshcheno 128 47, 1954. An interesting attempt of an improved mineralogical classification is made on a new basis. The discussion starts from a comparison of various systems, which are tabulated for comparison. The primary classification is in groups of (I) elements (including carbides, nitrides, phosphides), (II) sulfides (including tellurides, salts and intermetallic compounds), (III) oxides, (IV) silicates, (V) oxyalts (sulfates, phosphates, arsenates, vanadates, selenates, tellurates, wolframate, molybdates, carbonates, nitrates, borates, etc.), (VI) other minerals combined with the crystallochem. character of the coordination radicals. An arrangement with the ratios  $R_1/R_2$  and the ion potential  $\phi = Z/R$  for the central cation is introduced in the single groups and subgroups. This geochem. principle of typical paragenetic assocns. of characteristic elements is significant for the new rational classification. Thus, in group II appear the assocns. Pt-Pd-Ru; Mo-W-Bi; Zn-Cu-Cu; Ag-Pb-Hg-Au. In the oxide group III appear: Fe-Al-Mg; Fe-Mn; Cu-Ag-Pb-Hg. The silicates are grouped according to their structural types, among the silicate structures appear minerals with the assocns. Be-Al-Mg; Zn-Ti; Ca-Mn-rare earths; Zn-Cu-Pb-U, among the borates the assocns. Be-Al-Mg; Mg-Ca-Na; among the phosphates the assocns. Be-Al-Mg; Fe-Mn-Ca-rare earths; Zn-Cu-Pb-U; among the sulfates the assocns. Al-Fe; Mg-Na-Ca; Cu-Pb-U; among the carbonates the assocns. Na-Mg-Ca; Zn-Cu-Pb-U. The principle of assocns. is not only for the geochem. and paragenetic occurrence, but also for groups of lithophilic, chalcophilic, and siderophilic combinations. Graphic diagrams are given which show the  $\phi$  and hardness data of oxide, silicate, and phosphate minerals grouped in "assocn. fields" which are very distinct and characteristic.

KOSTOV, Ivan.

Classification of oxides. Min.sbor. no.10:105-131 '56.  
(MLRA 9:12)

1. Kafedra mineralogii Sofiyskogo universiteta.  
(Oxides)



KOSTOV, IVAN

The cordierite pseudomorphs. Ivan Kostov, *Geologicheskii Institut, Sofia, Bulgaria*, *Bull. Geol. Geophys.*, Vol. 10, No. 1, 1965, p. 18 (1964-55); Pub. 1965. The cordierite pseudomorphs were found in the Rhodope Mountains, Bulgaria. They were converted almost entirely into white mica, the presumably demourite. This I is contained in a pegmatite, III, which also contains orthoclase, quartz, and occasionally biotite, tourmaline, and columbite. The III was present as veins of veins upon the original rock, which caused the migration of Al, Mg, Fe, and the alkalis, as shown by the analyses. The I crystals are up to 4 cm in size, short prismatic in habit. They are interpenetrating twins with twinning at (110); generally present are (010), (100), and (001). Chem. analyses are presented both for I and II. On the surface, the I is rusty brown, indicating its transformation into limonite. This is an action of weathering, whereas the formation of the pseudomorphs must be considered as the result of a hydrothermal reaction. The older literature contained 16 names for pseudomorphs of I. Kostov cuts the no. of true pseudomorphs of I down to 3, namely those produced by chloritization (contg. chlorites IV), those produced by muscovitization (contg. muscovite II), and those produced by pyritization. This last group must be considered as an intermediate of the 2 other groups. The pyrite is nothing but a mixt. of muscovite II and IV. References: Wagner, J. (1965).

KOSTOV, I.

Andalusite in pegmatite from Ardino in the central Rhodope Mountains. p. 1.  
GODISHNIK, Sofiya, Vol. 48, no. 2, 1952/53-1953/54.

SO: Monthl: List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955, Uncl.

KOSTOV, I.

Dimitrov, Ts. Origin of manganese ore deposits in the Sredna Gora region. p. 23  
GODISHNIK, Sofiya, Vol. 48, no. 2, 1952/53-1953/54.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,  
Uncl.

KOSTOV, I.

SCIENCE

Periodical: GODISHNIK Vol. 50, no. 2, 1955/56 (published 1957).

KOSTOV, I. Concerning the polymorphism of  $\text{Al}_2\text{SiO}_5$ . p. 115.

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 2  
February 1959; Unclass.

15-57-5-6234

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 5,  
p 76 (USSR)

AUTHOR: Kostov, Ivan

TITLE: The Problem of Classifying the Oxides (K voprosu o  
klassifikatsii okislov)

PERIODICAL: Mineralog. sb. L'vovsk. geol. o-va pri un-te, 1956,  
Nr 10, pp 105-131.

ABSTRACT: The author has proposed a systematization of the mineral  
oxides in agreement with the principles of classifi-  
cation advocated by him (RZhGeo, 1955, 11249). He  
comments on the classifications of oxides adopted by  
Palache, Berman, and Frondel, and by A. G. Betekhtin  
/Palache, Berman, Frondel, Dana's System of Mineralogy,  
1946, 1; Betekhtin, A. G. Mineralogiya (Mineralogy)  
1950, Voprosy mineralogi, geokhemi i petrografii,  
Izd-vo AN SSSR (Questions on Mineralogy, Geochemistry,  
and Petrography, Academy of Sciences USSR Press), 1946/7,  
in which there is no consideration of the relationship

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15-57-5-6234

The Problem of Classifying the Oxides (Cont.)

between properties of the minerals and their paragenesis. In classi-  
fying minerals, the author considers not only the crystal order, but  
also the geochemical and mineral-paragenetic nature. In each class  
of minerals he proposes a comparison of the principal physical  
properties with the chemical composition, and the fundamental  
division is made by distinguishing associations of metals that  
characterize the chief cations in the respective minerals. The  
relations between specific gravity and hardness of the mineral oxides  
are shown on a diagram for four associations: Be-Al-Mg association,  
Fe-Mn association, Ti-Nb(Ta) association, and Cu-Pb-U association.  
The relationship between specific gravity and average refractive  
index is considered in reference to these four associations. The  
author recognizes the advisability of separating the anhydrous oxides  
from those oxides containing hydroxyl. Therefore the oxides and  
hydroxides are in all cases considered in a single group (called G  
below). In each of the associations, a G is distinguished by uniform  
or related crystalline types, similar in composition and paragenesis.  
In the Be-Al-Mg association, G's are distinguished for chrysoberyl,  
spinel, corundum, and periclase. The mutual relations of the spinel  
Card 2/4

15-57-5-6234

The Problem of Classifying the Oxides (Cont.)

tinguished. It contains G's of arsenolite-senarmonite, bistromite  
(?), bindheimite, and selenolite (?).

Card 4/4

E. M. K.

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KOSTOV, Dr. L.; Veterinary Institute, Stara Zagora

"Experience in the Application of Dry Tissue Biostimulant"

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Abstract: In a study based on USSR work pertaining to biostimulants, a dry tissue biostimulant derived from calves' spleen and testis was prepared. On implantation of the dry biostimulant into the lower part of the ears of male calves or subcutaneous injection of the biostimulant in a liquid state to the calves, an increase in the rate of growth of the calves in comparison with control animals was obtained, as shown by the gain in weight. Table.

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